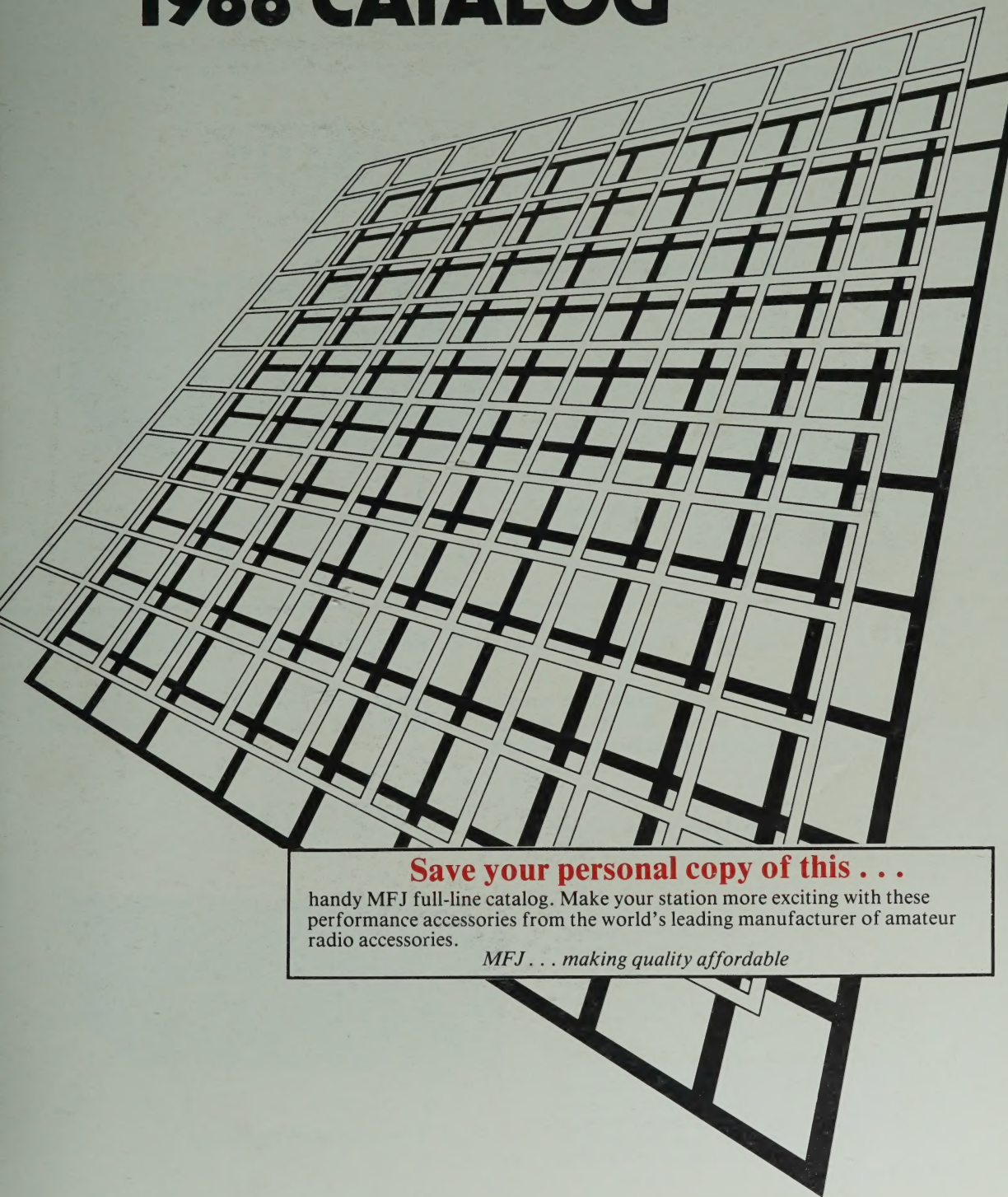


MFJ ENTERPRISES, INC.

1988 CATALOG



Save your personal copy of this . . .

handy MFJ full-line catalog. Make your station more exciting with these performance accessories from the world's leading manufacturer of amateur radio accessories.

MFJ . . . making quality affordable

CROSS-NEEDLE METER ROLLER INDUCTOR TUNER

This compact MFJ Inductor Tuner has everything! Run up to 3 KW PEP and match everything from 1.8 through 30 MHz: coax, balanced lines, random wires. Built-in balun, dual-range cross-needle SWR/Wattmeter. Flexible six position antenna switch. Built-in dummy load.

- **Roller Inductor**
- **Built-in Dummy Load**
- **SWR/Watt Lighted Meter**
- **Antenna Switch**
- **Built-in Balun**

MFJ-989B

\$349⁹⁵

Shipping Code E

Meet "Versa Tuner V". It has all the features you asked for! The new, smaller size matches smaller rigs - only 10 3/4 x 4 1/2 x 14 7/8. **Matches coax, balanced lines, random wires continuously from 1.8 to 30 MHz.** It features 3 KW PEP, the power rating you won't outgrow (250 pf-6KV caps). **Roller inductor** with a 3 digit turn counter plus a spinner knob for precise inductance control lets you get that SWR down to minimum every time. It has a 4:1 ferrite balun and a built-in 300 watt, 50 ohm dummy load. Cross-needle SWR/Wattmeter in 2 ranges (200/2000 watts). Meter light requires 12 VDC. An optional AC adapter, MFJ-1312, is available. The 6 position antenna switch lets you utilize 2 coax lines through tuner or direct, or random/balanced line or dummy load. MFJ-989B also features SO-239 coax connectors, ceramic feed-thru and a binding post ground.

The MFJ-989B has a deluxe aluminum low-profile cabinet with sub chassis for RFI protection. With black finish, black front panel with raised letters, the unit will match any ham shack. Plus a tilt ball for your easy viewing. **One full year limited warranty.**



CROSS-NEEDLE METER 1.5 KW VERSA TUNER III

Run up to 1.5 KW PEP and match everything from 1.8 through 30 MHz: coax, balanced line, random wire. Built-in balun. Dual range cross-needle SWR/Wattmeter. Flexible six position antenna switch.

MFJ-962B

\$229⁹⁵

Shipping Code E

The MFJ-962B 1.5 KW Versa Tuner III lets you run up to 1.5 KW PEP and match any coax, balanced line or random wire feedline continuously from 1.8 to 30 MHz. This gives you maximum power transfer to your antenna for solid QSOs and attenuates harmonics to reduce TVI and out-of-band emission. Cross-needle SWR/Wattmeter in 2 ranges (200/2000) watts). **Flexible six position antenna switch** lets you select 2 coax lines through tuner or direct or random wire/balanced line and tuner bypass for dummy load. All metal, low profile cabinet gives you RFI protection, durability and sleek styling. This unit has a black finish which features reverse lettering on front panel. It measures 10 3/4 x 4 1/2 x 14 7/8 inches. A flip down wire stand tilts tuner for your easy viewing.

The MFJ-962B 1.5 KW Versa Tuner III features 4:1 ferrite balun, 250 pf-6KV volt capacitors and a 12 position inductor. It has a ceramic rotary switch and 2 percent meter. Every single unit is tested for performance and inspected for quality. Solid American construction from quality components makes this a superb unit. **One full year limited warranty.**



MFJ-949C DELUXE VERSA TUNER II

Buy one of the world's finest 300 watt antenna tuners with features that only MFJ offers like . . . dummy load, SWR, forward reflected power meter, antenna switch, balun. Matches everything from 1.8 through 30 MHz.

- **Lighted Cross-Needle Meter**
- **Built-in Dummy Load**
- **Antenna Switch**
- **Built-in Balun**

The best value ANYWHERE in a 300 watt RF output tuner. Why fool around? Buy the MFJ-949C Deluxe Versa Tuner II and Buy Satisfaction Today!

MFJ-949C

\$149⁹⁵

Shipping Code B

This is MFJ's best VERSA TUNER II and one of the world's finest 300 watt RF output tuners!

MFJ-949C Deluxe Versa Tuner II gives you a combination of quality, performance, and features that others can't touch at any price. You can run full transceiver power output - up to 300 watts RF output - and match your transmitter to any feedline from 1.8 through 30 MHz whether you have coax, balanced line or random wire. The MFJ-949C utilizes a cross-needle meter so Forward power, Reflected power and SWR can be read simultaneously in either 300 or 30 watts. No SWR sensitivity adjustment is needed. A 200 watt 50 ohm dummy load lets you tune up for maximum performance. A **flexible six position antenna switch** lets you select 2 coax line direct or tuner, random wires or balanced line and dummy load. A **large efficient airwound inductor - 3 inches in diameter** - gives you plenty of matching range and less losses for more watts out.

Packed with outstanding features: a 1:4 balun, 1000 volt capacitors, SO-239 coax connectors and binding post for balanced line, random wire and ground. The unit measures 10 x 3 x 7 inches. Every single unit is tested for performance and carefully inspected to insure top quality. **One year unconditional guarantee.**



MFJ-941D VERSA TUNER II

MFJ's fastest selling 300 watt antenna tuner has SWR/Wattmeter, antenna switch built-in balun. Matches everything from 1.8 to 30 MHz.

- **SWR/Wattmeter**
- **Antenna Switch**
- **Built-in Balun**

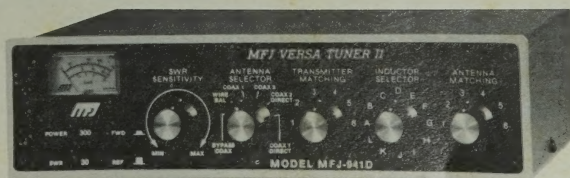
MFJ-941D

\$99⁹⁵

Shipping Code B

The MFJ-941D Versa Tuner II has a new SWR/Wattmeter! It gives you a more accurate reading. Switch selectable 30/300 watt ranges. Read forward or reflected power. Front panel mounted **Antenna Switch**. Select 2 coax lines, direct or through tuner, random wire/balanced line or tuner bypass for dummy load. The unit has a larger, more efficient, 12 position airwound inductor, which gives lower losses and more watts out. Run up to 300 watts RF power output. It matches everything for 1.8 to 30 MHz: dipoles, inverted vees, random wires, verticals, mobile whips, beams, balanced and coax lines. **Built-in 4:1 balun for balanced lines. 1000 volt capacitor spacing.** This unit works with all solid state or tube rigs. Easy to use anywhere!

All metal cabinet is stylish with its brushed aluminum front and black chassis. Measures 11 x 3 x 7 inches. **One year unconditional guarantee.**



MFJ-945C VERSA TUNER II

- **Gives Maximum Power Transfer**
- **Harmonic Attenuation**
- **SWR and Dual Range Wattmeter**
- **Built-in Balun**

The **MFJ-945C Versa Tuner II** has a SWR and dual range wattmeter (300 and 30 watts full scale) that lets you measure RF power output for simplified tuning.

You can run up to 300 watts RF output power and match any feedline from 1.8 to 30 MHz: coax, balanced line or random wire.

Gives maximum power transfer. Harmonic attenuation reduces TVI, out of band emissions. Efficient airwound inductor gives you more watts out than a tapped toroid. **4:1 balun** for balanced lines. 1000 volt capacitor spacing. **Mobile mounting bracket, MFJ-20**, \$3.00. SO-239 coax connectors. Binding post. 8 x 2 x 6 inches. Add \$2.00 shipping for bracket alone.

MFJ-945C
\$79⁹⁵
Shipping Code B



MFJ-901B VERSA TUNER

- **Increases Antenna Bandwidth**
- **Handles up to 200 Watts RF Output**
- **Matches Everything from 1.8-30 MHz**

MFJ-901B
\$59⁹⁵
Shipping Code A

Matches everything continuously from 1.8 through 30 MHz: coax, random wires, balanced lines. **Handles up to 200 watts RF power OUTPUT.** Works with all solid state and tube rigs. **Increases antenna bandwidth.** Operate all bands with a single antenna. Tune out SWR on your mobile whip from inside your car. Efficient airwound inductor gives more watts out than toroid. SO-239 coax connectors for transmitter and coax. Binding post for random wire, balanced line, ground. 5 x 2 x 6 inches.



MFJ-16010 RANDOM WIRE TUNER

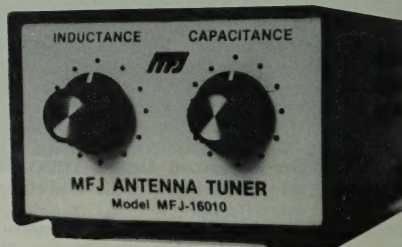
- **Operates All Bands from 1.8 to 30 MHz**
- **Ultra Compact Size Fits in your Pocket**
- **Handles up to 200 Watts RF Output**

MFJ-16010
\$39⁹⁵
Shipping Code A

Operate all bands - anywhere with any transceiver - using a random wire and an antenna tuner small enough to carry in your hip pocket. Ultra compact 2 x 3 x 2 inch.

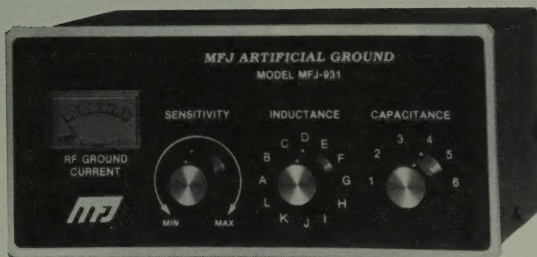
Operate from your apartment with a wall to wall antenna or from a motel room with a wire dropped from a window. Throw a wire over a tree and enjoy ham radio on a camping or backpacking trip. Be prepared for an emergency. Take it on a DX-pedition or Field Day.

Handles up to 200 watts RF output. Match low and high impedances by interchanging input and output. SO-239 connectors.



MFJ-931 ARTIFICIAL RF GROUND

Create an artificial RF ground with the new MFJ-931! It effectively places your rig near actual earth ground potential even if your rig is on the second floor or higher with no earth ground possible!



MFJ-931
\$79⁹⁵
Shipping Code A

How's your RF ground? Do you have RF "hot spots" that "bite" you when you transmit? Do you have RF feedback that causes your rig to quit working on some bands? Do you have TVI/RFI that makes your neighbors hard to live with? Do you get weak signal reports because of extreme ground losses or radiation pattern distortion?

These problems could be caused by poor RF grounding, especially if your rig is on a second floor with no ground at all. Even if you have a good ground, a long connection wire can ruin its effectiveness by isolating true RF ground from your rig.

The new MFJ-931 creates an artificial RF ground! It resonates a random length of wire thrown along the floor and produces a tuned counterpoise. This artificial

ground effectively places your rig near actual earth ground potential even if your rig is on the second floor or higher with no earth ground possible.

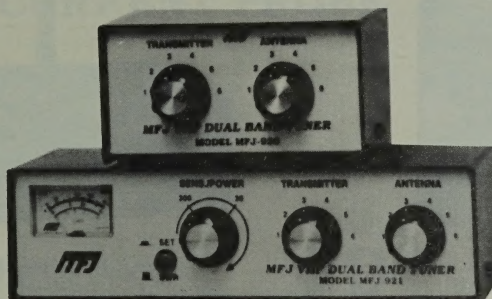
Also, the MFJ-931 electrically places a far away RF ground directly at your rig -- no matter how far away it is. The MFJ-931 reduces the electrical length of the ground connection wire to virtually zero by tuning out its reactance.

The MFJ-931 connects between your rig and a random length of wire or a connecting ground wire. It's tuned for maximum ground current using the built-in RF ammeter. It covers 1.8 to 30 MHz, measures 7 1/2 x 3 1/2 x 7 inches and comes with a one year warranty. It's available only from MFJ.

MFJ DUAL BAND VHF ANTENNA TUNERS



MFJ-921
\$69⁹⁵
Shipping Code A



MFJ-920
\$49⁹⁵
Shipping Code A

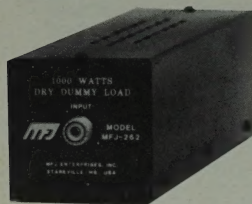
These new MFJ dual band VHF antenna tuners cover both the popular 2 meter band and the new Novice 220 MHz bands. Now you can quickly and easily tune your antenna for minimum SWR and maximum power output. You'll get cool efficient operation out of your rig while getting maximum range.

Both handle 300 watts PEP and match a wide range of impedances for coax fed antennas. These durable tuners

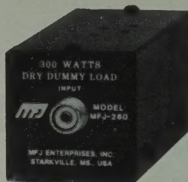
are suitable for both mobile and base operation and have SO-239 connectors for input and output and a wing nut for a ground connection. They come in attractive eggshell white and black aluminum cabinets.

The MFJ-921 is \$69.95, has a built-in SWR/Wattmeter and measures 8x2 1/2x3 inches. The MFJ-920 is \$49.95 and measures 4 1/2x2 1/2x3 inches.

MFJ "DRY" 300 W and 1 KW DUMMY LOADS



MFJ-262
\$64⁹⁵
Shipping Code A

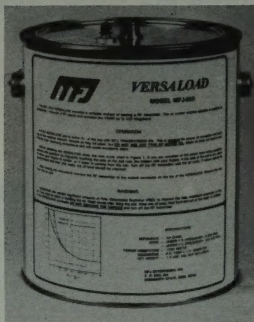


MFJ-260
\$26⁹⁵
Shipping Code A

Air cooled, non-inductive 50 ohm resistor in perforated metal housing with SO-239 connectors. Full load for 30 seconds, derating curves to 5 minutes. **MFJ-260 (300 W)**. SWR: 1.1:1 to 30 MHz, 1.5:1 for 30-60 MHz. 2½ x 2½ x 7 inches. **MFJ-262 (1 KW)**. SWR 1.5:1-30 MHz. 3 x 3 x 3 inches.

MFJ-10, 3 foot coax with connectors, \$4.95.

MFJ VERSALOAD KW DUMMY LOAD

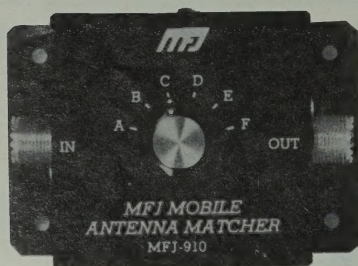


MFJ-250
\$44⁹⁵
Shipping Code D

MFJ-250 VERSALOAD kilowatt dummy load lets you tune up fast. Extends life of transmitter final. Reduces on-the-air QRM. Run 1 KW CW or 2 KW PEP for 10 minutes, ½ KW CW or 1 KW PEP for 20 minutes. Continuous duty with 200 watts or 400 watts PEP. Complete with derating curve. **Quality 50 ohm non-inductive resistor. Oil cooled.** Includes high quality industrial grade transformer oil (contains NO PCB). **Low VSWR to 400 MHz.** Under 1.2:1, 0-30 MHz. 1.5:1, 30-300 MHz. 2:1, 300-400 MHz. Ideal for testing HF and VHF transmitters. **SO-239 coax connector.** Vented for safety. Removable vent cap. Has carrying handle. 7½ inches high, 6 5/8 inches diameter.

MOBILE ANTENNA MATCHER

MFJ-910
\$19⁹⁵
Shipping Code A



This MFJ compact Mobile Antenna Matcher lowers your SWR and provides more power into your mobile whip. For solid signals and more QSOs. Your solid state rig puts out more power and generates less heat.

Matches mobile antennas from 10 through 80 meters. Great for vacation ham operators. Easy plug-in installation. Compact size fits anywhere. 2½ x 2½ x 1½.

MFJ PORTABLE ANTENNA

MFJ-1621
\$79⁹⁵
Shipping Code A



The **MFJ-1621 Portable Antenna** lets you operate in almost any electrically free area, an apartment, a campsite, a resort hotel, even at the beach. It lets you work **40, 30, 20, 15, and 10 meters** by using a telescoping whip antenna that extends to **54 inches**. The antenna is mounted on a self-standing 6 x 3 x 6 inch durable cabinet. The portable antenna features a built-in antenna tuner, field strength meter and 50 feet of RG-58 coax cable.

The **MFJ-1621 is the complete portable antenna system**. It can be used in practically any location. Just place the antenna in an electrically clear location, set the bandwidth, tune the capacitor for maximum field strength and operate! 5½ x 6¼ x 2¼ inches.

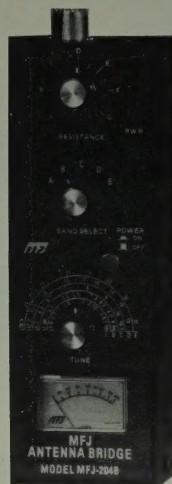
MFJ ANTENNA BRIDGE

The **MFJ-204B Antenna Bridge** lets you trim your antenna quickly and easily for its best performance. The Antenna Bridge will give an accurate reading of your antenna resistance up to 500 ohms and will cover all ham bands to 30 MHz. When used to measure the resonant frequency of your antenna, you can check to see if the resonant frequency is higher or lower than desired. Then you can lengthen or shorten your antenna based on the information gathered with the MFJ-204B Antenna Bridge. Very easy to use. Just connect the antenna coax lead to the antenna bridge, set the frequency that you desire and adjust the bridge for a null meter reading. Antenna resistance shows on the dial. It's that simple!

MFJ-204B Antenna Bridge also has a frequency counter jack for precise frequency measurement and can be used as a signal generator. The Antenna Bridge is very compact, with all of these great features enclosed in a sturdy 4 x 2 x 4 inch black aluminum cabinet. MFJ-204B operates on a single 9 volt battery or 110 VAC with optional AC adapter, MFJ-1312, \$9.95.

MFJ-204B
\$79⁹⁵

Shipping Code A



MFJ RF NOISE BRIDGE

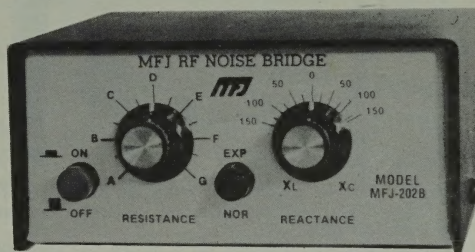
- **Measures Resonant Frequency**
- **Measures Radiation Reactance**
- **Exclusive Range Extender**
- **Expanded Capacitance Range**

Great features make this unit hard to beat! Individually hand calibrated resistance scale, expanded capacitance range (+150 pf), built-in range extender gives accurate measurements and much extended measuring range, 1-100 MHz, very simple to use. Comprehensive computer proven manual.

This new **MFJ-202B Noise Bridge** lets you quickly adjust your single or multi-band dipole, inverted vee, beam, vertical, mobile whip or random wire for maximum performance. Tells resonant frequency and whether to shorten or lengthen your antenna for minimum SWR over any portion of a band. This unit works with any receiver or transceiver. 4 1/4 x 4 1/2 x 2 inches.

MFJ-202B
\$59⁹⁵

Shipping Code A



MFJ ANTENNA CURRENT PROBE

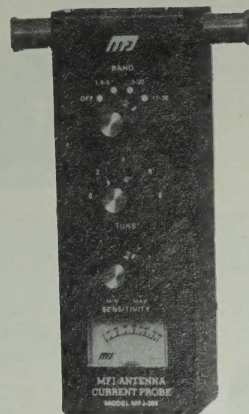
This revolutionary **MFJ Antenna Current Probe** lets you monitor RF antenna currents -- no connections needed! Determine current distribution, RF radiation pattern and polarization of antennas, transmission lines, ground leads, building wiring, guy wires and enclosures.

Indicate transmission line radiation due to high SWR, poor shielding or antenna unbalance. **Detect re-radiation** from rain gutters and guy wires that can distort antenna field patterns. **Detect RF radiation** from ground leads, power cords or building wiring that can cause RFI. **Pinpoint RF leakage** in shielded enclosures. **Locate the best place** for your mobile antenna. **Use** as tuned field strength meter.

Monitors RF current by sensing magnetic field. Uses an electrostatically shielded ferrite core. FET RF amplifier, op-amp meter circuit for excellent sensitivity, selectivity. 1.8-30 MHz. Has sensitivity, bandswitch, tune controls. 4 x 2 x 2 inches.

MFJ-206
\$79⁹⁵

Shipping Code A



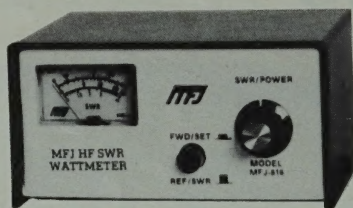
VHF SWR/WATTMETER



MFJ-812
\$29⁹⁵
Shipping Code A

Now MFJ has a low cost VHF operating aid, the **MFJ-812**. Lets you read SWR from 14 to 170 MHz to monitor antenna and feedlines. Read forward and reflect-ed power at 2 meters (144-148 MHz). 2 scales (30 and 300 watts). Read relative field strength from 1 to 170 MHz. Binding post for field strength antenna. Easy push-button operation: has forward/reflected and SWR/field strength push-buttons. Aluminum eggshell white, black cabinet. 4¼ x 2¼ x 2¼ inches. SO-239. 2 color meter scale.

HF SWR/WATTMETER

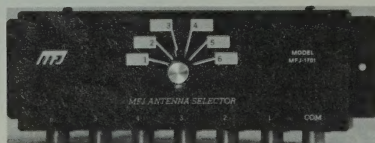


MFJ-816
\$29⁹⁵
Shipping Code A

The **MFJ-816 HF/SWR Wattmeter** reads SWR from 1.8 to 30 MHz to monitor antenna and feedlines. Toroidal current pickup for uniform sensitivity.

Read forward and reflected power on 2 scales (30 and 300 watts). Easy push-button operation. Has forward/reflected push button. Sturdy all aluminum egg-shell white and black cabinet. SO-239 connectors. 2 color meter scale. 4¼ x 2¼ x 3 inches.

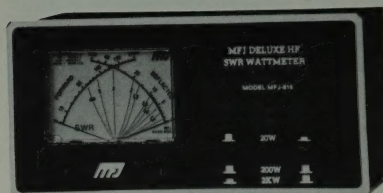
6 POSITION ANTENNA SWITCH



MFJ-1701
\$29⁹⁵
Shipping Code B

The **MFJ-1701 6-Position Antenna Switch** allows you to switch between 6 antennas without disconnecting a connector. The MFJ-1701 can be used for 50 to 75 ohm systems, plus handle 2000 watts SSB, 1000 CW. It uses 7 SO-239 connectors with negligible insertion loss and low VSWR. All unused terminals are automatically grounded for static/lightning/RF protection. Convenient mounting holes for desk or wall. 10 x 3 x 1½ inches.

CROSS-NEEDLE SWR/WATTMETER



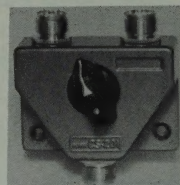
MFJ-815
\$59⁹⁵
Shipping Code A

This **MFJ-815 Cross Needle SWR/Wattmeter** lets you monitor SWR, forward and reflected power at a single glance and it's quality made here in the USA by MFJ.

Read average forward and reflected power in 3 ranges (20/200/2000 watts forward and 2/20/200 watts reflected) and SWR from 1:1 to 6:1 on a 2 color scale. Works from 1.8 to 30 MHz. Accuracy is ±10 percent full scale. Mechanical zero adjustment for meter movement.

Easy push button range selection. Rugged aluminum black cabinet with brushed aluminum front. SO-239 connections. Meter light requires 12 VDC or optional AC adapter, MFJ-1312. \$9.95. 6½ x 3¼ x 4¼ inches.

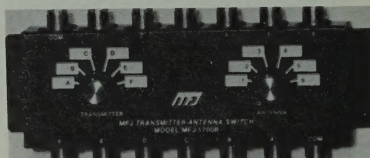
2-POSITION COAXIAL SWITCH



MFJ-1702
\$19⁹⁵
Shipping Code A

The **MFJ-1702 2-Position Coaxial Switch** is for 50 ohm systems. It can handle 2.5KW PEP, 1KW CW. It has better than 60 db isolation at 300 MHz and better than 50 db at 450 MHz. The unused terminal is automatically grounded for static/lightning/RF protection. It has low insertion loss, less than 0.2 db and SWR below 1:1.2. The MFJ-1702 has heavy cavity type construction and uses SO-239 connectors. 3 x 2 x 2 inches.

COMBINATION ANTENNA/TRANSMITTER SWITCH



MFJ-1700B
\$59⁹⁵
Shipping Code B

If you have more than one rig, this **MFJ-1700B** gives you instant selection of any antenna/transceiver combination.

It contains two high quality rotary switches that allow you to select 1 of 6 antennas and 1 of 6 transceivers in any combination. You can also plug in an antenna tuner, SWR/Wattmeter, linear, etc., so that they are always in the circuit for any combination of antenna and transceiver. **Handles up to the full legal limit of 2KW PEP** for 50-75 ohm loads. All unused inputs and outputs are shorted to ground. Transmitters and antenna switches are separated from each other for high signal isolation. Two heavy duty ceramic rotary switches. 14 SO-239 connectors. Black, all aluminum cabinet. Measures 10 x 3 x 1½ inches.

MFJ-314 220 MHz VHF CONVERTER

Turn your 2 Meter handheld into a hot 220 MHz receiver! Listen in on the new Novice band. Hear new and exciting communications as this important band begins to develop.

This new **MFJ-314 VHF converter** lets you receive 221 to 225 MHz on 2 Meter handhelds that cover 144 to 148 MHz. If your handheld has extended coverage you'll get extended coverage with the MFJ-314 -- simply add 77 MHz to your handheld band limits to determine your coverage.

And you won't miss any 2 Meter calls while scanning the 220 MHz band because you'll simultaneously hear both the 2 Meter and the 220 MHz band!

You'll enjoy scanning, memory, digital readout and other features if they're available on your handheld.

The MFJ-314 mounts between your handheld and your rubber ducky using BNC connectors. A highpass input filter and 2.5 GHz transistor give excellent uniform sensitivity over the entire 220 MHz band. It's crystal controlled and has a Bypass/OFF switch that allows transmitting through the converter. The MFJ-314 is protected from burnout if you transmit (up to 5 watts) with the converter on. It uses a single AAA battery and measures just 2 1/4 x 1 1/2 x 1 1/2 inches.

MFJ-314
\$39⁹⁵

Shipping Code A



MFJ-280 COMPACT MOBILE SPEAKER

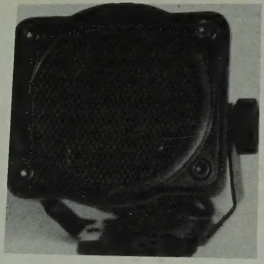
Enjoy crisp, clear audio from this tiny, low cost mobile speaker. The magnetic base lets you put it anywhere and move it anytime. Just unplug the 3.5 mm phone plug, wrap the 30 inch cord around the unit, and slip it into your jacket pocket or glove box. Then, when you're ready to use it again, just plug it in and set it on any metal surface. Leave the screwdriver and splicing tools at home -- **MFJ-280 comes ready to use!** The tilt bracket gives you even more convenience.

It works with all 8 and 4 ohm impedances and handles up to 3 watts of audio. Its dark grey military color matches nearly all rigs. This rugged unit also comes with the famous MFJ one year unconditional warranty and measures just 2 1/2 x 2 x 3 inches.



MFJ-280
\$18⁹⁵

Shipping Code A



MFJ-284 SPEAKER/MIC

Fits both ICOM and Yaesu Handhelds.

Once you've tried this new **MFJ-284 Speaker/Mic** you'll never want to be without it. You'll be able to comfortably carry your handheld on your belt without ever having to remove it to monitor calls or talk.

You'll never have to turn up your audio annoyingly loud to monitor calls because its handy lapel/pocket clip lets you place it close to your ear for easy listening.

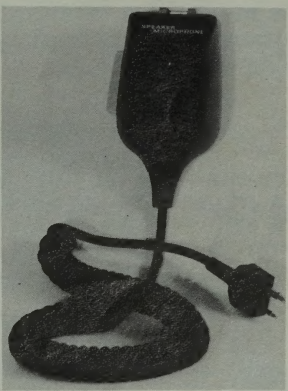
And you'll never have to clumsily remove your handheld from your belt holder to talk because you can conveniently take the speaker/mic in one hand, press its push-to-talk button and talk.

It comes with a lightweight retractable cord that eliminates the "dangling cord problem" and has a connector that fits both Icom and Yaesu handhelds. It features unusually clean audio on both transmit and receive. It's an attractive dark grey that matches all handhelds. It sounds good, looks good, works good and is priced right. It comes with the famous MFJ one year unconditional warranty.



MFJ-284
\$29⁹⁵

Shipping Code A



MFJ-290 DROP-IN RAPID DESK CHARGER

Works with all ICOM rechargeable battery packs

Be prepared! Keep your handheld ready for instant use with the new **MFJ-290 Drop-in Rapid Desk Charger.**

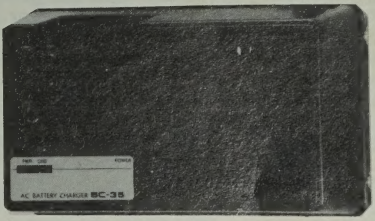
This MFJ battery charger works for all ICOM rechargeable battery packs. The IC-u2 series battery packs require the ICOM AD-10 adapter.

It's made of high quality high impact plastic with ventilation holes for cool operation and measures just 7 x 4 x 3 inches. It has an ON/OFF switch, power "ON" and charging indicators and operates from 110 VAC.



MFJ-290
\$69⁹⁵

Shipping Code B



DELUXE MFJ/BENCHER KEYSER/PADDLE COMBO

MFJ, Bencher and Curtis team up to give you America's most popular keyer in a compact package for smooth easy CW.

MFJ-422B

\$129⁹⁵

Shipping Code B



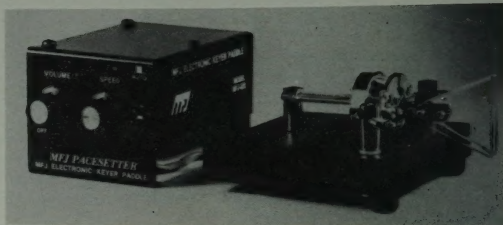
The best of all CW worlds - a deluxe MFJ Keyer in a compact configuration that fits right on the Bencher iambic paddle! You can buy the combination or just the keyer for your Bencher.

MFJ Keyer is small in size, big in features. Curtis 8044ABM IC is adjustable in weight and tone and has front panel volume and speed controls (8-50 WPM). Built-in dot-dash memories. Speaker, sidetone and push button selection of semi-automatic/tune or automatic modes. Ultra-reliable solid state keying: grid-block, cathode and

MFJ-422BX

\$79⁹⁵

Shipping Code A



solid state transmitters (-300V, 10 mA max., +300V, 100 mA max.). Fully shielded. Uses 9V battery or 110 VAC with optional adapter, MFJ-1305, \$9.95.

Beautiful, functional engineering. The keyer mounts on the paddle base to form a small (4 1/8 x 2 5/8 x 5 1/2 inches) attractive combination that is a pleasure to look at and use.

The Bencher Paddle is a best seller. Fully adjustable gold-plated silver contacts, lucite paddles, chrome plated brass, heavy steel base with non-skid feet.

COMPACT ECONO KEYSER

This compact MFJ Keyer gives you dot-dash memories, iambic, automatic, semi-automatic and manual modes. Solid state keying. RF proof.

MFJ-401B

\$49⁹⁵

Shipping Code A



The MFJ-401B Econo Keyser II is based on the proven Curtis 8044ABM IC Keyer chip.

Sends iambic, automatic, semi-automatic, manual. Use squeeze, single level or straight key.

Iambic operation with squeeze key. Dot-dash insertion. **Semi-automatic "bug" operation** provides automatic dots and manual dashes.

Dot-dash memory, self-completing dots and dashes, jam-proof spacing. Instant start. **RF proof.**

Front panel controls. Smooth linear speed control. 8 to 50 WPM. **Volume control** for adjusting built-in side tone. **Tune switch** lets you key transmitter for tuning.

Internal controls: **Weight control** adjust dot-dash space ratio; makes your signal distinctive to penetrate QRM. **Tone control** for desired side tone pitch.

Ultra-reliable solid state keying: grid-block, cathode, solid state transmitters (-300V, 10 mA max., +300V, 100 mA max.).

Uses 9V battery (not included) or 110 VAC with optional AC adapter, MFJ-1305, \$9.95. 4 x 2 x 3 1/2 inches.

DELUXE ELECTRONIC KEYSER

Uses the latest Curtis 8044ABM IC. Gives you dot-dash memories, positive and negative weight, volume, tone controls, speaker. Sends iambic, automatic, semi-automatic, manual. Reliable solid state keying. RF proof.

MFJ-407B

\$69⁹⁵

Shipping Code A



The Deluxe Electronic Keyer sends iambic, automatic, semi-automatic and manual. You can use squeeze, single lever or straight key to send your signal. The MFJ-407B features iambic operation with squeeze key, dot-dash insertion, semi-automatic dots and manual dashes. The keyer also features dot-dash memory, self-completing dots and dashes, jam-proof spacing and instant start keying. A/B switch on rear allows selection of A or B type iambic keying.

Solid state plus and minus keying is provided for use with tube or solid state transmitters. Front panel controls include linear speed, weight, tone and volume controls as well as on/off, tune and semi-automatic switches. Weight control provides positive weight or negative weight. Adjust the dot-dash space ratio, thus making your signal distinctive to penetrate QRM. Tune switch keys transmitter for tuning.

The MFJ-407B is RF proof, has a built-in speaker and uses a 9-volt battery (not included) or 110 VAC with AC adapter, MFJ-1305, \$9.95. This hard working product comes in an attractive black aluminum cabinet with a black front plate. It measures 7 x 2 x 6 inches.

MFJ-484C GRANDMASTER MEMORY KEYER

All the features you'll ever need . . . So easy to use that you probably won't have to read the instruction manual . . . Lets you send perfect CW!



MFJ-484C
\$139⁹⁵
Shipping Code A

MFJ Grandmaster series memory keyers make sending perfect CW almost effortless. **MFJ-484C** is so easy to use that you can probably utilize all of its many features without reading the instruction manual.

Controls are logically positioned and clearly labeled. Pots are used for speed, volume, tone and weight because they are easy to use and remember your settings with power off. **Up to twelve-25 character messages** plus a 100, 75, 50 or 25 character message (4069 bits total). A switch combines 25 character messages for up to three 50 character messages. **To record**, just pull out the speed control, touch a message button and send. **To playback**, let out record/send switch, select your message and touch the button. That's all there is to it! You can repeat any message continuously and even leave a pause between repeats (up to 2 minutes). **Example:** Call CQ. Pause. Listen. If no answer, it repeats CQ again. To answer, simply start sending. LED indicates Delay Repeat Mode. **Instantly insert or make changes** in any playing message by simply sending. Continue by touching another button. **Memory resets** to beginning with button, or by tapping paddle when playing. Touching

message button restarts message. **LEDs** show which 25 character memory is in use and when it ends. **Built-in memory saver** uses 9 volt battery, no drain when power is on. Saves message in memory when power loss occurs or when transporting keyer. Ultra compact, 8 x 2 x 6 inches. All ICs in sockets.

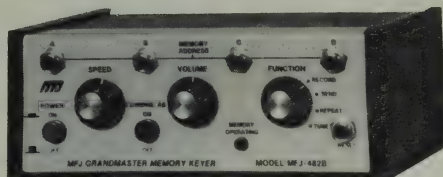
Plus an MFJ Deluxe Full Feature Keyer.

Iambic operation with squeeze key. Dot-dash insertion. **Dot-dash memories**, self completing dots and dashes, jamproof spacing, instant start (except when recording). All controls are on front panel: speed, weight, tone, and volume. Smooth linear speed control. 8 to 50 WPM. **Weight control** lets you adjust dot-dash-space ratio; makes your signal distinctive to penetrate QRM. **Tone control** lets your room fill with volume. Speaker **Ultra reliable solid state keying:** grid block, cathode, solid state transmitter. (-300 V, 10 mA max., +300 V, 100 mA max.). CMOS ICs, MOS memories. Use 12 to 15 VDC or 110 VAC with optional AC adapter, MFJ-1312, \$9.95. Auto-matically switches to batteries when AC power is lost. **Wired Remote Memory Address Board** allows control of memory at the paddle, MFJ-75, \$14.95.

MFJ-482B GRANDMASTER MEMORY KEYER

Store four-25 character messages or a 50 and two-25 character messages in 1024 bits of memory. **Repeat function** repeats messages. Memory resets with button or paddle. Memory LED. **Memory saver** saves messages when power is lost. Iambic keyer. Dot-dash insertion. **Speed, volume controls** on front. 8 to 50 WPM. **Weight control** for QRM penetration. Tone control for pitch. Speaker. All ICs in sockets. **Tune function keys** transmitter for tuning. **Solid state keying.** 6 x 2 x 6 inches. 12 to 15 VDC or 110 VAC with optional adapter, MFJ-1312, \$9.95.

MFJ-482B
\$99⁹⁵
Shipping Code A

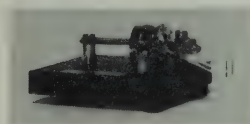


BENCHER IAMBIC PADDLES

Ideal for all MFJ Keyers and Memory Keyers

BY-1
\$61⁹⁵
Shipping Code A

BY-2
\$74⁹⁵
Shipping Code A



Bencher Iambic Paddles feature a full range of adjustments in tension and contact spacing, self-adjusting nylon and steel needle bearings, gold plated solid silver contact points that almost never need cleaning, precision machined frame and non-skid feet. "The Ultimate Iambic Paddle." **Black base, BY-1, \$61.95; Chrome Base, BY-2, \$74.94.**

MFJ DUAL TUNABLE SSB/CW FILTER

lets you zero in SSB/CW signal and notch out interfering signal at the same time. Primary Filter has tunable peak, notch, lowpass, highpass. Auxiliary Filter has peak, notch. Noise Limiters for SSB, CW.



MFJ-752C
\$99⁹⁵
 Shipping Code A

The **MFJ-752C Signal Enhancer** is a dual tunable SSB/CW active filter system that gives you signal processing performance and flexibility that others can't match! For example, you can select the optimum Primary Filter mode for an SSB signal, zero in with the frequency control and adjust the bandwidth for best response. Then, use the Auxiliary Filter to notch out an interfering heterodyne or peak the desired signal. For CW, peak both Primary and Auxiliary Filters for narrow bandwidth to give skirt selectivity that others can't touch. Also, use the Auxiliary Filter to notch out a nearby QSO. The **Primary Filter** lets you peak, notch, lowpass or highpass signals with a double tuned filter for extra steep skirts. The **Auxiliary Filter** lets you notch a signal to 70 db or peak one with a bandwidth down to 40 Hz. Tune both **Primary**

and **Auxiliary Filters** from 300 to 3000 Hz. Vary bandwidth from 40Hz to almost flat. Notch depth to 70 db.

MFJ has solved problems that plague other tunable filters to give you a constant output as a bandwidth is varied. And a linear frequency control. And a notch filter that is tighter and smoother for a more effective notch. **Works with any rig.** Plugs into phone jack. 2 watts for speaker. **Inputs for 2 rigs.** Switch selectable. **Switchable noise limiter** for impulse noise through clipper removes background noise. Use for SWling as well as SSB and CW. **Speaker and phone jacks.** Speaker is disabled by phones. OFF bypasses filter. Uses 9 to 18 VDC at 300 mA or optional AC adapter, MFJ-1312, \$9.95. Measures 10 x 2 x 6 inches.

MFJ SUPER CW/SSB FILTERS

The **MFJ-722 "Optimizer"** offers razor sharp, no ring CW filtering with switch-selectable bandwidths (80, 110, 150 and 180 Hz centered on 750 Hz), steep-skirted SSB filtering and a 300-3000 Hz tunable 70 db notch filter.

The **8-pole (4 stage) active IC filter** gives CW performance that no tunable filter can match. (80 Hz bandwidth gives -60 db response on octave from center and up to 15 db noise reduction.) The **8-pole SSB audio bandwidth** is optimized for reduced sideband splatter and less QRM (375 Hz highpass cutoffs at 2.5, 2.0 and 1.5 KHz, 36 db/octave rolloff).

Versatile, plug into the phone jack, provide 2 watts for speaker or use headphones. Requires 9-18 VDC or 110 VAC with optional adapter, MFJ-1312, \$9.95. 5 x 2 x 6.

MFJ-723, \$49.95. Similar to MFJ-722. **Less SSB Filter.** 2 x 4 x 6 inches.

MFJ-723
\$49⁹⁵
 Shipping Code A

MFJ-722
\$79⁹⁵
 Shipping Code A



MFJ DXer's COMMUNICATIONS FILTER

MFJ-732 puts more presence in SSB/AM/FM voice communications, brings more signals out of the "mud"! The MFJ-732 is **very easy to use**, just push up to 4 buttons. It has a 10-pole (5-stage) circuit with **Chebyshev superfast roll-off** (up to 58 db/octave). First button: On/Off-Bypass, response 300-3000 Hz; second button: 500 Hz lower cutoff; third: 2200 Hz upper cutoff; fourth: 1500 Hz upper cutoff. **Built-in speaker**, 2 watt amplifier, LED. Use 9-18 VDC or 110 VAC with optional AC adapter, MFJ-1312, \$9.95. Measures 5 x 6 x 1 5/8 inches.

MFJ-732
\$69⁹⁵
 Shipping Code A



24/12 HOUR LCD CLOCKS

MFJ 24 hour clocks make your DXing, contesting, logging and SKEDing easier, more precise.

Read both UTC and local time at a glance with the MFJ-108, \$19.95, dual clock that displays 24 and 12 hour time simultaneously. Or choose the MFJ-107, \$9.95 single clock for 24 hour UTC time.

Both are mounted in a brushed aluminum frame, feature **huge, easy-to-see 5/8 inch LCD numerals** and a sloped face that makes across-the-shack reading easy and pleasant.

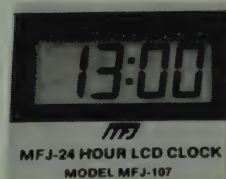
You can read hour, minute, second, month and day and operate them in an alternating time-date display mode. You can also **synchronize them to WWV** for split-second timing. Both are **quartz controlled** for excellent accuracy.

They are **battery operated** so you don't have to reset them after a power failure, and battery operation makes them suitable for mobile and portable use. Long life battery included. MFJ-108, 4 1/2 x 1 x 2 inches; MFJ-107, 2 1/4 x 1 x 2 inches.

MFJ-107

\$9⁹⁵

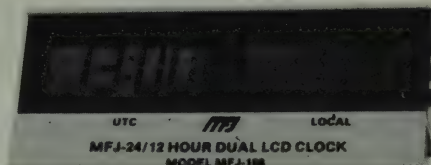
Shipping Code A



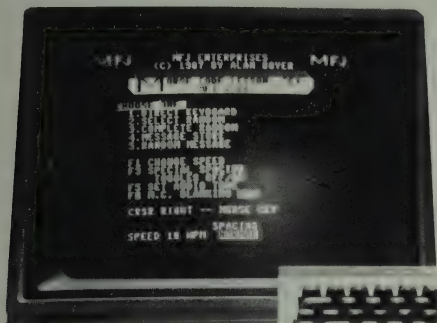
MFJ-108

\$19⁹⁵

Shipping Code A



C-64/128 CW CODE TUTOR



This new full feature MORSE Code Tutor Program for the Commodore 64 and 128 not only teaches Morse code but it is also a full fledged **iambic keyer and Morse keyboard!** With the optional \$19.95 **MFJ-76 Interface Board** you can plug in an external keyer paddle and key a transmitter or transceiver.

Excellent audio quality and a full menu of features make code learning easier than ever. **Select Random** - lets you choose the letters you wish to study. **Complete Random** - sends all alphabet, numbers and punctuation randomly. **Random Message** - sends a plain English message exactly as given on an FCC test or received on the air. **Message Store** - lets you enter a message from the keyboard and store for sending. **Direct Keyboard** - lets you send code directly from your computer keyboard. Use normal CW spacing or the special Farnsworth spacing that sends characters at a fast pace with longer space between characters. A copy of a test similar to an **FCC Novice license test** is included in the manual.

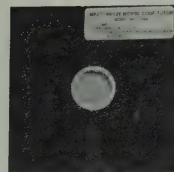
The program is available in disk (**MFJ-1266, \$19.95**) or cartridge (**MFJ-1267, \$29.95**) versions.

It follows the format of ARRL's "Tune in the World" and can be used with that course or with MFJ supplied code learning course. It is designed for both individual study and classroom use and features **Screen Blanking** for testing purposes. **One year limited warranty.**

MFJ-1266 (disk)

\$19⁹⁵

Shipping Code A



MFJ-1267 (cartridge)

\$29⁹⁵

Shipping Code A



MFJ-76 (Interface board)

\$19⁹⁵

Shipping Code A



MFJ VHF CONVERTER

Turn your 2 meter handheld into a hot Police/Fire/Weather scanner with this MFJ VHF Converter.

MFJ-313
\$39⁹⁵
Shipping Code A



This MFJ VHF converter turns your synthesized scanning 2 meter handheld into a hot Police/Fire scanner on 154-158 MHz with direct frequency readout. Hear NOAA weather, maritime coastal and more on 160-164 MHz. Mounts between handheld and rubber ducky. Feed-thru allows simultaneous scanning of both 2 meters and Police/Fire bands. No missed calls. **Highpass input filter** and **2.5 GHz transistor** give excellent uniform sensitivity over both bands. Crystal controlled. **Bypass/Off switch** allows transmitting. Won't burn out if you transmit (up to 5 watts) with convert on. Low insertion SWR. Uses AAA battery. This unit measures 2 1/4 x 1 1/2 x 1 1/2 inches. BNC connectors. Enjoy scanning, memory, digital readout, etc., as provided by your handheld on Police/Fire band.

MFJ MOBILE VHF CONVERTER

MFJ-312B VHF Converter turns your 2 meter rig into a Police/Fire and Weather band scanner.



MFJ-312B
\$59⁹⁵
Shipping Code A



Hear exciting Police/Fire calls, weather band, maritime coastal and more on your mobile 2 meter rig.

Scanning rigs become Police/Fire scanners. This ingenious MFJ VHF Converter turns your synthesized or VFO 144-148 MHz FM rig into a hot Police/Fire receiver (154-158 MHz) with direct frequency readout on your rig. Receive weather plus more on 160-164 MHz. **Feedthru** allows simultaneous scanning of both 2 meters and Police/Fire band. No missed calls. Enjoy all benefits of your rig such as squelch, excellent sensitivity, selectivity, stability, limiting, AM rejection. May also be used with handhelds. **Bypass/Off switch** allows transmitting. Won't burn out if you transmit (up to 25 watts) with converter on. Low insertion SWR. **Two MOSFETS (tuned RF amp. mixer)**, bipolar crystal oscillator gives excellent performance. **"On" LED**. 9-18 VDC. SO-239 connectors. Mobile mounting bracket. 3 x 4 x 1 inches.

2 METER HANDHELD WATTMETERS

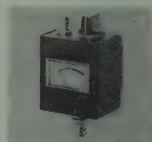
MFJ-840 accurately checks the power output of your 2 meter handheld transceiver. 5 watts full scale. Provides 50 ohm load. BNC connector. 2 x 2 1/4 x 1 1/2 inches. Black.

MFJ-841. Connects directly in line with your 2 meter HT. Read SWR from 1:1 to 6:1 and forward power to 5 watts. Expanded scale. 50 ohm impedance. BNC connectors. This unit measures 2 x 2 1/4 x 1 1/2 inches. Black. Switch: SWR, SWR set, power, SWR set pot.

MFJ-840
\$19⁹⁵
Shipping Code A

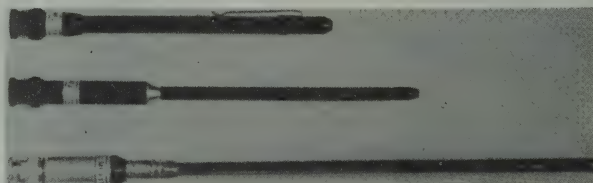


MFJ-841
\$39⁹⁵
Shipping Code A



HANDHELD TELESCOPING ANTENNAS WITH BNC

MFJ-1710
\$9⁹⁵
Shipping Code A



MFJ-1714
\$16⁹⁵
Shipping Code A

MFJ-1712
\$14⁹⁵
Shipping Code A

MFJ-1710, \$9.95. Most hams use a rubber ducky on their 2 Meter handheld. They work fine -- for short range. But what about when you are just barely breaking into a repeater? Wouldn't it be nice to slip on a linear that fits in your shirt pocket like a pen and cost only \$9.95?

When you're right on the fringe with a noisy signal, try on the MFJ-1710 "pocket linear". It's a 3/8 wave 2 Meter telescoping antenna. You'll get enough gain over a rubber ducky to bring you to full quieting so you can carry on a QSO. It only cost \$9.95, has a convenient pocket clip and when collapsed is the size of a ball point pen -- about 5 1/4 inches -- and 24 1/2 inches fully extended.

MFJ-1714, \$16.95. For really long range using a 2

Meter handheld it's hard to beat the MFJ end fed halfwave. It's shorter, lighter, has more gain and places less stress on your antenna connector than a 5/8 wave mounted on a handheld. The MFJ unit works better than a 5/8 wave because a 5/8 wave requires a ground plane to function properly. There is no ground plane on a handheld and a 1/2 wave does not require one so it works properly and out-performs a 5/8 wave. When collapsed it performs like a rubber ducky.

MFJ-1712, \$14.95. This is a very convenient dual band handheld telescoping antenna. It's a 1/4 wave for 2 Meters and a 5/8 wave for 440 Mhz. It's 7 1/4 inches collapsed and 19 inches fully extended.

MFJ-630 CORDLESS PHONE INTERFACE

lets you operate your HF rig remotely by plugging into the base unit of your cordless telephone!



MFJ-630
\$39.95
Shipping Code A

Use your cordless phone to operate your HF rig **remotely!**

Wouldn't it be fun to operate the HF transceiver in your ham shack from your living room as you relax watching the evening news? Or how about operating your HF rig while mowing grass, raking leaves or shoveling snow?

MFJ's new cordless phone interface lets you use your cordless phone to remotely operate your rig!

For remote operation, you simply plug the base unit of your cordless phone and the microphone input and speaker output of your transceiver into the MFJ-630 cordless phone interface.

Then with your cordless phone you can operate your rig using VOX anywhere within range of your cordless phone.

Isn't that neat?

You can have remote operation for only \$39.95 plus shipping and handling!

The MFJ-630 comes with the famous MFJ full one year unconditional warranty and, if you're not satisfied for any reason, you can return it within 30 days for a full no hassle refund (less shipping and handling) if you order the MFJ-630 directly from MFJ.

It's a tiny 3x4x1 inches, has a modular jack for plug-in connection to the cordless phone base unit and RCA jacks for speaker and microphone connection to your transceiver. You must use VOX operation. The MFJ-630 does not provide remote tuning.

ALL BAND XCVR PRESELECTOR

MFJ-1040B
\$99.95
Shipping Code A



Copy weak signals with the **MFJ-1040B Transceiver/Preselector**. Rejects out-of-band signals, images. Reduces cross modulation overloading. Excellent signal to noise ratio. **Continuous 1.8 to 54 MHz**: all HF amateur, shortwave bands. Up to 20 db gain. Gain control. Dual gate MOSFET, bipolar transistors for low noise, high gain. **Push button switches** for 20 db attenuator, ON/OFF BYPASS, 2 antennas, 2 receivers. **Dual coax and phone jacks** for antennas, receivers. RF sensing relay automatically bypasses preselector when transmitting up to 350 watts input. Delay control. Jack for push-to-talk. LED. 8x2x6 in. 9-18 VDC or 110 VAC with AC adapter, MFJ-1312, \$9.95.

MFJ-1045, \$69.95. Same as MFJ-1040, less attenuator, xcvr auto bypass, delay control, PTT

CODE OSCILLATOR

MFJ-555B
\$24.95
Shipping Code A



Send clear code with plenty of volume for classroom use. Self-contained speaker with volume/tone controls, aluminum cabinet, 9 volt battery. 555 IC timer. 2 3/16 x 3/4 x 4 inches.

RS-232 INTERFACE for C-64/VIC-20



MFJ-1238
\$39.95
Shipping Code A

Provides RS-232 voltage conversion for VIC-20/C-64 serial port. Use RS-232 printers, modems and other RS-232 peripherals. Switch reverses transmit/receive lines for DTE or DCE operation. Use as null Modem. 25 pin RS-232 connector. Plugs into user's port. Powered by computer. 2 1/4 x 2 1/4 inches.

CAPACITANCE METER for VIC-20



MFJ-1258
\$29.95
Shipping Code A

Measure 100 pf to 100 Mfd. Includes calibration capacitor, software on tape and hardware interface. **A great buy.**

DELUXE HYBRID PHONE PATCH

MFJ-624B
\$69.95
Shipping Code A



MFJ-624B Telepatch II gives you crisp, clear, hum-free audio. Use the VOX or push-to-talk. RF pi-filters and PC Board construction eliminate RF feedback. Works with any rig.

VU meter monitors phone line levels to prevent crosstalk, lets you adjust null depth for maximum isolation between receiver and transmitter. **Transmitter and receiver gain controls** eliminate readjusting rig's controls after patching. **Tri-Function switch** gives you OFF for normal operation, **ON** that connects your rig to phone line for patching and **NULL** to let you adjust for maximum null. Simple **2 cable installation** (plus phone line) when rig has patch-in-patch-out jacks. MFJ includes **phone jacks** for patch-in-patch-out, speaker and microphone. Modular phone jack for phone lines. Measures 8 x 2 x 6 inches.

MICROPHONE EQUALIZER

MFJ-550
\$49.95
Shipping Code A



The **MFJ-550 Microphone Equalizer** greatly improves transmitted SSB speech for maximum talk power, evens out speech peaks and valleys to produce cleaner speech on the receiving end and improves mobile operation.

Plugs between microphone and rig. Features include: bass, midrange and treble variable controls that provide a ± 12 db boost or cut at 490, 1170 and 2800 Hz; a microphone gain control and an on/off/bypass switch with "on" LED. Bypass switch connects microphone directly to rig. Aluminum cabinet. 9-volt battery, 12 VDC or 110 VAC with AC adapter, MFJ-1312, \$9.95.

NEW SW/MW/LW PRESELECTOR/TUNER



MFJ-956
\$39.95
Shipping Code A

This new **MFJ-956 short, medium, long wave preselector/tuner** lets you boost your favorite station while rejecting images, intermod and other phantom signals on your shortwave receiver! It greatly improves reception of 150 KHz thru 30 MHz signals, especially those below 2 MHz.

Connects between receiver and antenna. Has tuner bypass and ground receiver positions. 2 x 3 x 4 inches.

54" OUTDOOR ACTIVE ANTENNA

This 54 inch Active Antenna eliminates outside long wire antennas. Puts you in business where space is a problem. Mount it anywhere, atop houses or apartments, on board ships. Use it with any radio to receive strong, clear signals from all over the world **without an outside long wire antenna**. So powerful that it often **outperforms long wires hundreds of feet long!**

Covers all waves from 50 KHz to 30 MHz, and all frequencies from VLF thru lower VHF: long wave, medium wave, broadcast and shortwave bands. Mount away from electrical noise for maximum signal and minimum noise pickup. A very high, dynamic range, impedance transforming amplifier module **eliminates intermodulation**. Hear only the signals that are there.

The control unit has a 20 db attenuator and gain control to **prevent receiver overload**. A receiver switch selects between 2 receivers and an antenna switch selects an auxiliary antenna. LED indicates power "ON". **MFJ-1024 comes complete and ready to use with a 50 foot coax cable and hardware.**

The control unit is 6 x 2 x 5 inches and the remote unit is 3 x 2 x 4 inches with the 54 inch whip antenna mounted onto it. Use 12 VDC or 110 VAC with optional AC adapter, MFJ-1312, \$9.95.

MFJ-1024
\$129⁹⁵
Shipping Code B



INDOOR ACTIVE ANTENNA

"World Grabber". Put this handsome unit on your operating desk and listen to the world! Its performance rivals reception from outside long wire antennas.

Unique tuned circuitry minimizes intermodulation, provides additional RF selectivity and reduces noise outside the tuned band. Amplification also permits using the **MFJ-1020A** as a preselector with an external antenna for added versatility. **Cover 300 KHz to 30 MHz in 5 bands**. Switch select .3 - .7, .7 - 1.6, 1.6 - 4, 4 - 11, 11 - 30 MHz. The **adjustable telescoping antenna** gives you maximum signal, minimum noise. **Full controls** for tuning, band selection, gain and function (On-Off/Bypass). LED indicator. FET, bipolar circuitry. Phono jack provided for use with external antenna. **Universal power**. Operates on 9 V battery (not included), 9-18 VDC power supply, or 110 VAC with AC adapter, MFJ-1312, \$9.95.

This handsome black metal cabinet with a brushed aluminum front panel easily fits on your desk. Measures 5 x 2 x 6 inches. Wherever you live, city apartment or country home, the MFJ-1020A will grab the SWL world for you!

MFJ-1020A
\$79⁹⁵
Shipping Code A



MOBILE SW CONVERTERS

MFJ-304
\$79⁹⁵
Shipping Code A



MFJ-308
\$99⁹⁵
Shipping Code A



Another MFJ "first"! These low cost mobile **short-wave broadcast converters** provide new excitement and variety for your driving/listening pleasure.

MFJ has two models for you to choose from! The 4-band "World Explorer I" (MFJ-304) offers complete 19, 25, 31 and 49 meter coverage. These are the most popular HF bands due to their extraordinary distance capabilities at various times of the day and the year. Hear countries from Europe, Africa, the Middle East, Asia, Island Nations, North and South America! And the 8-band "World Explorer II" (MFJ-308) adds 13, 16, 41 and 60 meter bands for even greater listening variety.

MFJ RECEIVER ANTENNA TUNER/PREAMPLIFIER

MFJ-959B
\$89⁹⁵
Shipping Code B



The **MFJ Receiver Antenna Tuner/Preamplifier** will match your antenna to your receiver for maximum signal from 1.8 to 30 MHz. The MFJ-959B utilizes a **low noise 20 db preamplifier** to boost weak signals. It also has a 20 db attenuator built-in to help receivers plagued with overload problems from strong signals.

The **MFJ-959B can connect two receivers** to two antennas with either SO-239 connectors or RCA phono jacks for convenience. Select between tuner-attenuator, tuner, tuner with preamp and bypass. Gain control for boosting signal. Measures only 9 x 2 x 6 inches. 9-18 VDC or 110 VAC with optional AC adapter, MFJ-1312, \$9.95.

OUR GUARANTEE

Gives You Two-way Protection

UNCONDITIONAL WARRANTY

MFJ Enterprises, Inc. has the strongest warranty in the Ham Radio industry. All products (except as noted) manufactured by MFJ are unconditionally guaranteed for one year from the date of purchase. This means that we will repair or replace (at our option) any product that fails or is defective for any reason.

MONEY-BACK GUARANTEE

You are not taking a chance when you buy from MFJ Enterprises, Inc. Order any product directly from MFJ and try it in your own setup -- compare it to any other product on the market regardless of price. Then if you are not completely satisfied, simply return it within 30 days for a prompt and courteous refund (less shipping). So order today and try it -- you'll be glad you did.

For Your Nearest MFJ Dealer or To Order By Telephone: Call Toll Free **800-647-1800** and charge it to your MasterCard or VISA, or have us send it COD within the continental USA. Inside Mississippi or outside of the continental USA call **601-323-5869**. Call Monday - Friday between 8 A.M. and 4:30 P.M. CST. **Telex: 53-4590 MFJ STKV.**

To Order By Mail: Send your order along with your check, money order or VISA/MasterCard number and expiration date. Mail to: **MFJ Enterprises, Inc., Box 494, Mississippi State, MS 39762.**

Foreign Orders: Orders outside the USA and Puerto Rico must include payment in U.S. funds, check on U.S. bank, International money order or International VISA or MasterCard. Orders shipped airmail unless other instructions are given.

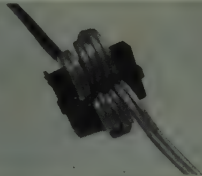
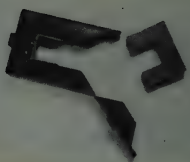
Price Chart for Shipping Charges

Shipping Code	UPS	Parcel Post	Canada	Outside U.S.
A	4.00	4.00	5.00	25.00
B	5.00	6.00	7.00	*Quoted
C	5.00	7.00	9.50	*Quoted
D	6.00	9.00	10.50	*Quoted
E	10.00	15.00	22.00	*Quoted

*Quotes must be obtained for codes B thru E going outside the U.S.A.

MFJ-701 RFI-FREE CHOKE KIT

Eliminates RFI Easy As . . .

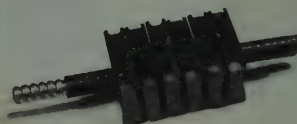
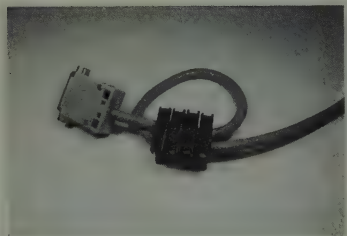


MFJ-701
\$14⁹⁵
Shipping Code A
Package of Four (4)

One . . .

Two . . .

Three!



Versatile . . . Stackable . . . Works with all kinds of cables!

Everyone seems to have RFI problems of some kind that affect TVs, radios, stereos, telephones, VCRs, computers, PA systems, burglar and fire alarms, test equipment, modems, monitors and other electronic devices.

The new **MFJ-701 RFI-Free Choke Kit** makes it easy to eliminate common RFI problems. It's based on the proven and highly effective technique of winding the offending cable or wire around a ferrite toroid to choke off and eliminate RFI.

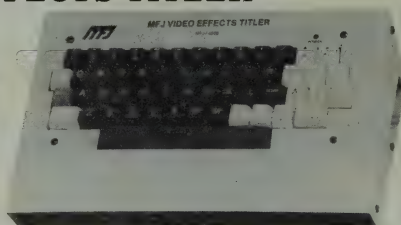
The problem has been finding a toroid with the proper characteristics -- one that actually eliminates RFI -- and one that has a big enough hole to pass through the end of a power cord or AC adapter or microphone cord or speaker leads, etc.

The **MFJ-701 RFI Free Choke Kit** gives you four square toroids that have the right properties for eliminating RFI from .5 to 200 MHz. Each toroid separates into halves and mounts in a tough snap-together plastic frame. This makes it easy to wind around the toroid nearly any kind of wire or cable. For example, computer ribbon cable, coax cable or a power cord with an AC adapter on its end can be wound around the toroid easily. The individual toroids also snap together into a stack. This increases effectiveness for large diameter wires where only a few turns can be used and for rigid cables where the cable is simply passed through a stack of toroids.

Full instructions are provided and installation is easily accomplished within minutes. Order today and eliminate RFI!

VIDEO EFFECTS TITLER

MFJ-1480B
\$599⁹⁵
Shipping Code D



The **MFJ-1480B Video Effects Titler (VET)** lets you superimpose color titles over a camera image or add titles to existing video footage while editing. Each page will display eight lines of 28 small or 14 large characters in upper and lower case with each line and page in one of 15 colors. The VET retains up to 30 pages of titles in memory, even if power is lost or turned off. It also has direct page access, scrolling and auto centering.

And because it is expandable, *the VET is never outdated*. An external port lets you plug in creative add-on cartridges coming from MFJ that permit special effects, more fonts, flashing, logos, other languages and more!

An optional RS-232 interface (MFJ-1481, \$169.95) lets you interface with personal computers. With some programming you can superimpose animated graphics, stored text and countless other effects from an IBM, Apple, Tandy, Commodore and other PCs. You're only limited by your imagination.

All this technology for only \$599.95!

ADVANCED VIDEO PROCESSOR

MFJ-1452
\$299⁹⁵
Shipping Code D



The **MFJ-1452 Advanced Video Processor** greatly improves video dubbing and transfer of movies and slides to videotape. Invert video for viewing or transferring negative film or slides to video tape. Separate luminance (brightness) and chrominance (color) invert switches. **Enhance contrast** by expanding/compressing white and black levels with independent white stretch/destretch and black pedestal controls. **Luminance level meter** will help you accurately set brightness level for professional results. **Unique switch** reverses playback/record VCRs for recording on either. **Color processor** has tint, color intensity, brightness controls. Corrects off-color video, boosts faded color, improves scenes that are too dark or too light. **Split screen image enhancer** brings out detail, makes fuzzy video sharp and clear, gives simultaneous on-screen comparison of enhanced/ unenhanced picture. Noise cancel reduces picture noise. **Automatic stabilizer** stops picture roll and jitter caused by copyguarded tapes. Gives rock stable picture for viewing. **Warning:** Duplicating copyrighted material may be in violation of Federal or State Law. **3 output** video/audio distribution amplifier. **2 input selector**, sync boost minimizes picture bending/tearing, bypass, separate RF modulator for TV. 110 VAC or 12 VDC 14 x 2 x 8 inches.

MFJ RTTY/ASCII/AMTOR/CW COMPUTER INTERFACE



MFJ-1224

\$99⁹⁵

Shipping Code B

Complete package includes MFJ-1224, cable, software on disk for C-64/VIC-20.

Use your personal computer as a full featured RTTY/ASCII/AMTOR/CW station for sending and receiving with the **MFJ-1224 RTTY/ASCII/AMTOR/CW Computer Interface!**

It plugs between your rig and most personal computers. Uses **Kantronics** and most other RTTY/CW software with nearly any personal computer.

A **2 LED tuning indicator system** makes tuning fast, easy and positive. Distinguish between RTTY/CW without even hearing it. Allows you to copy any shift and any speed (5 to 100 WPM on RTTY/CW and up to 300 baud on ASCII). **Copies on both mark and space**, which greatly improves copy under adverse conditions. A sharp **8 pole active filter** for 170 Hz shift and CW allows good copy under adverse signal conditions. Automatic noise limiter helps suppress static crashes. **Normal/Reverse switch** eliminates retuning while stepping through various RTTY speeds and shifts. The **demodulator** will even maintain copy on a slightly drifting signal. A **+250 VDC loop output** is available to drive your RTTY machine. Convenient speaker out-

put jack. **Phase continuous AFSK transmitter tones** are generated by a clean, stable Exar 2206 function generator. Standard space tones of 2125 Hz and mark tones of 2295 and 2975 Hz are generated. A set of microphone lines is provided for AFSK out, AFSK ground, PTT out and PTT ground. **FSK keying. High voltage grid block and direct outputs** for CW keying. CW transmit LED. There is also an external hand key or electronic keyer input jack. In addition to the Kantronics compatible socket, an exclusive general purpose socket allows interfacing to nearly any personal computer with most appropriate software. (Some computers with some software may require external components.) **TTL compatible lines:** RTTY demod out, CW demod out, CW-ID input, +5VDC ground. Signal lines are buffered and can be inverted using an internal DIP switch. IC regulated DC voltages give stable AFSK tones and RTTY/ASCII/CW reception.

Aluminum cabinet. Brushed aluminum front panel. 8 x 1 1/4 x 6 inches. 12-15 VDC or 110 VAC with adapter, MFJ-1312, \$9.95. **MFJ-1223, RS-232 adapter for MFJ-1224, \$29.95.**

MFJ RTTY/ASCII/AMTOR/CW DELUXE COMPUTER INTERFACE



MFJ-1229

\$179⁹⁵

Shipping Code B

Complete package includes MFJ-1229, cable, software on disk for C-64/VIC-20.

Engineering, performance, value and features set MFJ's most advanced RTTY/ASCII/AMTOR/CW computer interface apart from all others. **FM (limiting) mode** gives easy, trouble free operation. **AM (non-limiting) mode** gives superior performance under poor signal conditions. **Crosshair mark-space LED tuning array** simulates scope ellipse for easy, accurate tuning. Mark and space outputs for true scope tuning. **Transmits on 170 Hz and 850 Hz shift. Built-in RS-232 interface.** Copy any shift between 100 and 1000 Hz and any speed (5-100 WPM RTTY/CW and up to 300 baud ASCII). Push button for 170 Hz shift. **Sharp multi-pole mark and space filters** give true mark-space detection. Ganged pots give space passband tuning with constant bandwidth. Trim pots adjusted for optimum filter performance. **Multi-pole active filters** for prefilter, mark, space and post detection filtering. Automatic threshold correction. Gives good copy under QRM, weak signal and selective fading. **Sensitivity control. Normal/Reverse**

switch eliminates retuning while checking for inverted RTTY. Speaker jack. +250 VDC loop output. **Exar 2206 sine wave generator** gives phase continuous AFSK tones. Standard 2125 Hz mark and 2295/2975 Hz space. Microphone lines: AFSK out, AFSK ground, PTT out, PTT ground. **FSK keying.** Sharp 800 Hz CW filter, plus and minus CW keying and external CW key jack. **Kantronics software compatible socket. Exclusive TTL/RS-232 socket** allows interfacing to most personal computers with most appropriate software. Available TTL/RS-232 lines: RTTY demod out, CW demod out (TTL only), CW-ID in, RTTY in, PTT in, key in. Signal lines are buffered and can be inverted with internal DIP switch.

Metal cabinet. Brushed aluminum front. 12 1/2 x 2 1/2 x 6 inches. 18 VDC or 110 VAC with optional AC adapter, MFJ-1312, \$9.95. **Plugs between rig and computer. Uses MFJ, Kantronics, AEA and other RTTY/ASCII/AMTOR/CW software.**

RECEIVER ONLY INTERFACE

MFJ-1225

\$69⁹⁵

Shipping Code A



Use your computer and communications receiver to receive commercial, military and amateur RTTY/ASCII/AMTOR/CW traffic with the **MFJ-1225 Universal Receiver Only SWL RTTY/ASCII/AMTOR/CW Computer Interface.**

It plugs between your receiver and most personal computers. Use Kantronics, AEA and other RTTY/ASCII/AMTOR/CW software. Copies all shifts and all speeds. Twin LED indicators make tuning fast, easy and positive. In addition to the Kantronics compatible socket, a general purpose socket provides RTTY out, RTTY inverted out, CW out, CW inverted out, ground and +5 VDC for interfacing to nearly any personal computer. **Normal/reverse switch** eliminates tuning for inverted RTTY. **Audio in, speaker out jacks.** Includes cable to interface MFJ-1225 to VIC-20 or Commodore 64. 4 1/2 x 1 1/4 x 4 1/4 inches. 12-15 VDC or 110 VAC with AC adapter, MFJ-1312, \$9.95.

SUPER RTTY FILTER

MFJ-725

\$39⁹⁵

Shipping Code A



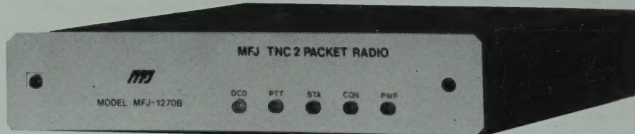
This Super RTTY Filter greatly improves copy under crowded, fading and weak signal conditions. Improves any RTTY receiving system. 8 pole bandpass active filter for 170 Hz shift (2125/2295 Hz mark/space). 200 or 400 Hz bandwidths. Automatic noise limiter. Audio in, speaker out jacks. On/off/bypass switch. "ON" LED. 12 VDC or 110 VAC with AC adapter, MFJ-1312, \$9.95. 3 x 4 x 1 inch aluminum cabinet.

MFJ-1274 lets you work VHF and HF packet with built-in tuning indicator for \$169.95 . . .

. . . you get MFJ's latest clone of TAPR's TNC-2, TAPR's VHF/HF modem and built-in tuning indicator that features 20 LEDs for easy precise tuning

MFJ-1274
\$169⁹⁵

Shipping Code B



MFJ-1270B
\$139⁹⁵

Shipping Code B

Now you can join the exciting world of packet radio on both VHF and HF bands with a precision tuning indicator . . . for an incredible \$169.95!

You get MFJ's top quality clone of the highly acclaimed industry standard TAPR TNC-2. We've made TAPR's modem selectable for both VHF and HF operation, added their precision 20 segment LED tuning indicator, a TTL serial port, an easily replaceable lithium battery for memory back-up and put it all in a new cabinet.

If you don't need the tuning indicator or the convenience of a switchable VHF/HF modem, choose the affordable MFJ-1270B for \$139.95.

All you need to operate packet radio is a MFJ-1274 or MFJ-1270B, your rig, and any home computer with a RS-232 serial port and terminal program.

If you have a Commodore 64, 128, or VIC 20 you can use MFJ's optional Starter Pack to get on the air immediately. The Starter Pack includes interfacing cable, terminal software on disk or tape and complete instructions . . . everything you need to get on packet radio. Order MFJ-1282 (disk) or MFJ-1283 (tape), \$19.95.

Unlike machine specific TNCs you never have to worry about your MFJ-1274 or MFJ-1270B becoming obsolete because you change computers or because packet radio standards change. You can use any computer with an

RS-232 serial port with an appropriate terminal program. If packet radio standards change, software updates will be made available as TAPR releases them.

Also speeds in excess of 56K baud are possible with a suitable external modem! Try that with a machine specific TNC or one without hardware HDLC as higher speeds come into widespread use.

You can also use the MFJ-1274 or MFJ-1270B as an excellent but inexpensive digipeater to link other packet stations.

Both feature AX.25 Level 2 Version 2 software, hardware HDLC for full duplex, true Data Carrier Detect for HF, multiple connects, 256K EPROM, 16K RAM (expandable to 32K with optional EPROM), simple operation, socketed ICs plus much more.

You get an easy-to-read manual, a cable to connect your transceiver (you have to add a connector for your particular radio), a connector for the TTL serial port and a power supply for 110 VAC operation (you can use 12 VDC for portable, remote or mobile operation).

Help make history! Join the packet radio revolution now and help spread this exciting network throughout the world. Order the top quality and affordable MFJ-1274 or MFJ-1270B today.

TNC TUNING INDICATOR

MFJ-1273
\$49⁹⁵

Shipping Code A



Now you can tune in HF, OSCAR and other non-FM packet stations fast! This MFJ clone of the TAPR tuning indicator makes tuning natural and easy -- it shows you which direction to tune. All you have to do is to center a single LED and you're precisely tuned in to within 10 Hz. 20 LEDs give high resolution and wide frequency coverage.

The MFJ-1273 tuning indicator plugs into the MFJ-1270, MFJ-1270B and all TNC-1s, TNC-2s and clones that have the TAPR tuning indicator connector.

Order any product directly from MFJ and try it with no obligation. If you are not satisfied return it within 30 days for prompt refund (less shipping). One year unconditional guarantee

MFJ

MFJ ENTERPRISES, INC.
Box 494, Miss. State, MS 39762

TNC/MIC INTERFACE BOX

MFJ-1272
\$29⁹⁵

Shipping Code A



Tired of disconnecting the microphone from your rig everytime you want to work Packet? Then let the **MFJ-1272 TNC/Microphone Interface Box** connect your TNC and microphone simultaneously. It measures just 3/8x4/8x1 1/4 inches -- you get convenience and a clutter-free shack at a very affordable price.

MFJ-1272 works with all TNC-1s, TNC-2s and clones. It has a 4 pin mic jack on the front panel. A 4 pin female plug is also provided (not wired). RCA input jack for audio in; RCA jack for audio out to speaker.

For Your Nearest Dealer or To Order
800-647-1800

Call 601-323-5869 in Miss. and outside continental USA.
Telex 53-4590 MFJ STKV



MFJ . . . making quality affordable

MFS CATALOG

1. 800.647.1800

1. MFS MOBILE UHF CONVERTER

MFS. 312B

59.95

SHIPPING CODE A

2. METER HANDHELD WATTMETERS

MFS 841

39.95

SHIPPING CODE A

TOTAL 107.90

11.30.87 WROTE LETTER ABT MFS 841 -
HU NOT RECEIVED IT YET -

1. 100.00

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